

What is claimed is:

1 1. An ignition coil comprising:

2 a casing; and

3 a bobbin, including a body and a plurality of first
4 terminals embedded in the body, disposed inside
5 the casing, wherein each first terminal is
6 abutted by the body and the casing respectively
7 so that each first terminal is maintained in a
8 predetermined position on the body.

1 2. The ignition coil as claimed in claim 1,
2 wherein the bobbin is formed with a plurality of concave
3 portions for receiving the first terminals therein.

1 3. The ignition coil as claimed in claim 2,
2 wherein the bobbin is formed with a plurality of
3 protrusions for holding the first terminals therein, and
4 each concave portion is formed at one of the protrusions
5 respectively.

1 4. The ignition coil as claimed in claim 1,
2 further comprising:

3 a plurality of pins, corresponding to the first
4 terminals respectively, embedded inside the
5 casing.

1 5. The ignition coil as claimed in claim 4,
2 wherein each of the first terminals includes a ring-
3 shaped portion in contact with the corresponding pin.

1 6. The ignition coil as claimed in claim 5,
2 wherein each ring-shaped portion is abutted by the body
3 and the casing respectively.

1 7. The ignition coil as claimed in claim 5,
2 wherein each of the pins is surrounded by the
3 corresponding ring-shaped portion to contact the
4 corresponding first terminal.

1 8. The ignition coil as claimed in claim 5,
2 wherein each of the first terminals further includes a
3 protruding portion integrally formed with the ring-shaped
4 portion.

1 9. The ignition coil as claimed in claim 5,
2 wherein the casing is provided with a base in which the
3 pins are disposed, and each ring-shaped portion is
4 abutted by the base.

1 10. The ignition coil as claimed in claim 9,
2 wherein the base is formed with a plurality of supporting
3 portions to be abutted by the ring-shaped portions.

1 11. The ignition coil as claimed in claim 1,
2 wherein the bobbin further includes a primary portion and
3 a secondary portion.

1 12. The ignition coil as claimed in claim 11,
2 further comprising:
3 a primary coil surrounding the primary portion; and
4 a secondary coil, surrounding the secondary portion,
5 connected to the first terminals.

1 13. The ignition coil as claimed in claim 12,
2 wherein the bobbin further comprises:

3 two second terminals, connected to the primary coil,
4 embedded in the body.

1 14. The ignition coil as claimed in claim 1,
2 further comprising:

3 a core disposed inside the bobbin.

1 15. The ignition coil as claimed in claim 1,
2 wherein the casing is made of plastic.

1 16. The ignition coil as claimed in claim 1,
2 wherein each of the pins is made of metal.

1 17. An ignition coil comprising:

2 a casing;

3 a bobbin including a body, a plurality of first
4 terminals embedded in the body, and two second
5 terminals embedded in the body, wherein the
6 bobbin is disposed inside the casing, and each
7 of the first terminals is abutted by the body
8 and the casing respectively so that each of the
9 first terminals is maintained in a
10 predetermined position on the body;

11 a primary coil, surrounding the body of the bobbin,
12 connected to the second terminals;

13 a secondary coil, surrounding the body of the
14 bobbin, connected to the first terminals; and

15 a core disposed inside the bobbin.

1 18. The ignition coil as claimed in claim 17,
2 wherein the bobbin is formed with a plurality of concave
3 portions for receiving the first terminals therein.

1 19. The ignition coil as claimed in claim 18,
2 wherein the bobbin is formed with a plurality of
3 protrusions for holding the first terminals therein, and
4 each of the concave portions is formed at one of the
5 protrusions respectively.

1 20. The ignition coil as claimed in claim 17,
2 further comprising:

3 a plurality of pins, corresponding to the first
4 terminals respectively, embedded inside the
5 casing.

1 21. The ignition coil as claimed in claim 20,
2 wherein each of the first terminals includes a ring-
3 shaped portion contacting each corresponding pin.

1 22. The ignition coil as claimed in claim 21,
2 wherein each ring-shaped portion is abutted by the body
3 and the casing respectively.

1 23. The ignition coil as claimed in claim 21,
2 wherein each pin is surrounded by the corresponding ring-
3 shaped portion to contact each corresponding first
4 terminal.

1 24. The ignition coil as claimed in claim 21,
2 wherein each first terminal further includes a protruding
3 portion integrally formed with the ring-shaped portion.

1 25. The ignition coil as claimed in claim 21,
2 wherein the casing is provided with a base in which the
3 pins are disposed, and each ring-shaped portion is
4 abutted by the base.

1 26. The ignition coil as claimed in claim 25,
2 wherein the base is formed with a plurality of supporting
3 portions to be abutted by the ring-shaped portions.

1 27. The ignition coil as claimed in claim 17,
2 wherein the bobbin further comprises:

3 a primary portion surrounded by the primary coil;
4 and
5 a secondary portion surrounded by the secondary
6 coil.

1 28. The ignition coil as claimed in claim 17,
2 wherein the casing is made of plastic.

1 29. The ignition coil as claimed in claim 17,
2 wherein each of the pins is made of metal.

1 30. The ignition coil as claimed in claim 17,
2 wherein the bobbin further comprises:

3 two second terminals, connected to the primary coil,
4 embedded in the body.